CLAIMS

What is claimed is:

- 1. An apparatus comprising:
 - an electronic component that generates heat;
 - a body that encloses the electronic component, and has a bottom panel;
 - a heat receiving portion thermally connected to the electronic component;
 - a heat radiating portion that radiates the heat received by the heat receiving portion, the heat radiating portion forming a part of the bottom panel; and
 - a liquid cooling path inside which liquid coolant is circulated, the liquid cooling path being thermally coupled to the heat receiving portion and the heat radiating portion.
- 2. The apparatus according to claim 1, wherein the heat radiating portion includes an air channel thereon.
- 3. The apparatus according to claim 2, further comprising a fan arranged in the bottom panel, which moves air over the air channel.

- 4. The apparatus according to claim 3, wherein the exterior surface of the air channel has a corrugated configuration.
- 5. The apparatus according to claim 4, wherein the fan is adapted to draw from the surrounding ambient airspace.
- 6. The apparatus according to claim 4, wherein the fan is adapted to draw from the interior of the body.
- 7. The apparatus according to claim 4, wherein the fan is adapted to draw simultaneously from the surrounding ambient airspace and the interior of the body.
- 8. The apparatus according to claim 1, wherein the bottom panel includes an inclined portion forming an obtuse angle with a remaining portion of the bottom panel, and the inclined portion has a part of the heat radiating portion.
- 9. The apparatus according to claim 8, wherein the liquid cooling path is arranged to transfer heat from the liquid coolant to the inclined portion.

- 10. The apparatus according to claim 1, further comprising a pump which circulates the liquid coolant inside the liquid cooling path.
- 11. The apparatus according to claim 10, wherein the heat receiving portion is formed outside the pump.
- 12. An apparatus for cooling an electronic component that generates heat, the apparatus comprising:
 - a body that encloses the electronic component;
 - a bottom panel that forms a part of the exterior surface of the body ;
 - means for providing an air channel in the bottom panel;
 - means for transferring heat from the electronic component to a liquid coolant and from the liquid coolant to the bottom panel; and
 - means for moving air between an interior of the body and a surrounding ambient airspace such that a substantial portion of the air is moved over an exterior surface of the air channel.
- 13. The apparatus according to claim 12, wherein the exterior surface of the air channel has a corrugated configuration.

- 14. The apparatus according to claim 12, wherein the bottom panel further includes an inclined portion forming an obtuse angle with a remaining portion of the bottom panel.
- 15. The apparatus according to claim 14, further comprising means for transferring heat from the liquid coolant to the inclined portion.
- 16. The apparatus according to claim 12, wherein air is moved from the surrounding ambient airspace to the interior of the body.
- 17. The apparatus according to claim 12, wherein air is moved from the interior of the body to the surrounding ambient airspace.
- 18. The apparatus according to claim 12, wherein air is moved simultaneously from the surrounding ambient airspace, from the interior of the body, and to the surrounding ambient airspace.
- 19. The apparatus according to claim 12, further comprising means for circulating the liquid coolant between the electronic component and the bottom panel.

- 20. An apparatus comprising:
 - a body having a bottom panel;
 - an electronic component enclosed by the body;
 - a heat receiving portion thermally coupled to the electronic component;
 - a heat radiating portion including an air channel,
 the heat radiating portion forms a part of the
 bottom panel and radiates heat received by the
 heat receiving portion; and
 - a liquid cooling path thermally coupled to the heat receiving portion and the heat radiating portion.